


ILB BT ADIO 2/2/16/16

Order No.: 2884282



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Wireless IO module, 16 digital inputs, 16 digital outputs, 2 analog inputs, 2 analog outputs, Bluetooth V1.2; frequency band 2.4 GHz; 1 wireless interface; WLAN-BlackChannelList; LEM; transmission power max. 20 dBm adjustable

Commercial data	
GTIN (EAN)	4  046356 049658
sales group	K446
Pack	1 pcs.
Customs tariff	85176200
Catalog page information	Page 323 (NTK-2010)

Product notes

WEEE/RoHS-compliant since: 12/12/2008



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Technical data

Wireless interface	
Name	Bluetooth
Wireless standard	Bluetooth 1.2
Frequency range	2.402 GHz ... 2.48 GHz (ISM bandwidth)

Transmission power	16 dBm (Can be set between 0 dBm/1 mW and 16 dBm/39.8 mW in 4 dB increments)
Number of wireless interfaces	1
Wireless modules that can be connected	1 (FLM BT BS 3, FL BT MOD IO AP)
Profiles supported	HID

Wireless card

Number	1
Type	Bluetooth 2.4 GHz up to 1 Mbps
Assembly instructions	Permanently installed

Antenna

Assembly instructions	OMNI antenna is included
Number	1
Type of connection	SMA (male)

Power supply for module electronics

Type of connection	Inline connectors
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including ripple)
Supply current	< 100 mA

Functions

Security	128-bit data encryption
	Authentication
	PIN
	Non-discoverable

Digital inputs

Input name	Digital inputs
Type of connection	Spring-cage connection
Connection method	1-wire
Number of inputs	16
Filter time	500 µs
Input characteristic curve	IEC 61131-2 type 1

Digital outputs

Output name	Digital outputs
Type of connection	Spring-cage connection

Connection method	1-wire
Number of outputs	16
Protective circuit	Short-circuit protection, overload protection, protected against reverse voltages
Maximum output current per channel	500 mA

Analog inputs

Number of inputs	2
Input name	Analog inputs
Measured value resolution	12 bits
Current input signal	0 mA ... 20 mA
Voltage input signal	0 V ... 10 V

Analog outputs

Number of outputs	2
Output name	Analog outputs
DAC resolution	12 Bit
Current output signal	0 mA ... 20 mA
Voltage output signal	0 V ... 10 V

General data

Width	117 mm
Height	119.8 mm
Depth	73 mm
Weight	305 g
Mounting type	DIN rail
Ambient temperature (operation)	-25 °C ... 60 °C
Permissible humidity (operation)	95 %
Air pressure (operation)	795 hPa ... 1080 hPa (up to 2000 m above mean sea level)
Degree of protection	IP20
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Mechanical tests	Shock in acc. with IEC 60068-2-27:1997 25g
	Vibration (operation) in acc. with IEC 60068-2-6:1982 5g

Wireless licences	Australia (Special rule: Please contact the Product Manager)
	Belgium
	Bulgaria
	Denmark
	Germany
	Estonia
	Finland
	France
	Greece
	Great Britain
	Ireland
	Iceland
	Iceland
	Italy
	Canada
	Latvia
	Liechtenstein
	Lithuania
	Luxembourg
	Malta
	The Netherlands
	Norway
	Austria
	Poland
	Portugal
	Romania
	Russia (Special rule: Please contact the Product Manager)
	Sweden
	Switzerland
	Singapore
	Slovakia
	Slovenia
	Spain
	Czech Republic
	Turkey
	Hungary
	USA
	Cyprus (rep.)

Certificates / Approvals



Certification

CUL, UL

Accessories

Item	Designation	Description
Assembly		
3022276	CLIPFIX 35-5	Snap-on end bracket, for NS 35/7.5 or NS 35/15 DIN rail, can be fitted with Zack strip ZB 5 and ZBF 5, terminal strip marker KLM 2 and KLM, parking facility for FBS...5, FBS...6, KSS 5, KSS 6, width: 5,15 mm, color: gray
General		
2736783	FLM BT ID-PLUG M12	Configuration plug ID-PLUG, necessary to configure the Wireless-IO modules
Marking		
0809492	ESL 62X10	Insert strip for laser printer, lettering field: 62 x 10 mm
2727501	IB IL FIELD 2	Labeling field, width: 12.2 mm
0808778	ZBF 6:SO/CMS	Zack strip, flat, 10-section, divisible, special printing, marking according to customer requirements
0803618	ZBFM 6/WH:UNBEDRUCKT	Zack marker sheet, flat, unprinted: 100-section, 10 strips à 10 markers, sufficient for 100 terminal blocks, for all terminal blocks, pitch 6.2 mm, labeling with M-PEN or CMS system, color: white
0803650	ZBFM 6:SO/CMS	Special printing, Zack marker sheet, flat, 100-section, divisible, marking according to customer requirements
Software		
2692254	FL WST BASIC	Simulation software for supporting the planning of wireless systems in industrial environments. Thus, the later number and position of wireless components can be estimated and the quality of the radio coverage simulated.
2692377	FL WST BASIC DEMO	Simulation software for supporting the planning of wireless systems in industrial environments. Their functionality is limited with regard to the memory options as compared with the full version FL WST BASIC.

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